

## Claims

1. Process for the production of fludarabine-phosphate lithium, sodium, potassium, calcium and magnesium salts, whereby fludarabine-phosphate is dissolved in water, an alkali or alkaline-earth basic solution is added to this solution while being stirred and at temperatures of below 30°C, and this solution is slowly poured into acetone that is 45-55°C, cooled, and the deposited precipitate is optionally filtered and optionally dried.

2. Process for the production of fludarabine-phosphate, whereby the lithium, sodium, potassium, calcium and magnesium salts are produced according to claim 1 and then are released with mineral acid.

3. Process for the production of fludarabine-phosphate, whereby the lithium, sodium, potassium, calcium and magnesium salts are produced in a form that is more stable in storage according to claim 1 and then are released with mineral acid.

4. Process for the purification of fludarabine-phosphate, whereby crude fludarabine-phosphate is dissolved in water, an alkali or alkaline-earth basic solution is added to this solution while being stirred and at temperatures of below 30°C, and this solution is slowly poured into acetone that is 45-55°C, cooled, and the deposited precipitate is filtered and optionally dried and is obtained in a form that is stable in storage as a lithium, sodium, potassium, calcium or magnesium salt, and then this form that is stable in storage is dissolved in water and acidified

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